FORM P W G -45 WORK SLIP

Name Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Client: Bruhat Bangalore Mahanagar Palike

Agency:-

Item No.	Tender Item No.	Unit	As per BOQ			Executed beyond tender quantity up to 125%			Executed over & above 125% of tender quantity			As per actuals/Anticipated		Excess	Savings	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)Complete as per the direction of Engineer in charge with all lead and lift	Sqm	13265.28	112.00	1485711.36	13265.28	112.00	1485711.36	0.00	112.00	0.00	13265.28	1485711.36	0.00	0.00	
2	Excavation for road, drains and similar works KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Cum	12286.14	238.00	2924101.80	12285.84	238.00	2924030.05	0.00	6281.69	0.00	12285.84	2924030.05	0.00	71.75	
3	Plain cement concrete 1 3 6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Sqm	302.11	4524.00	1366727.54	302.10	4524.00	1366709.45	0.00	6576.80	0.00	302.10	1366709.45	0.00	18.10	
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC @ 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.45 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications Wall & bottom thickness 15cm Complete as per the direction of Engineer in charge with all lead and lift	Cum	637.09	7141.00	4549473.97	637.09	7141.00	4549452.55	0.00	7141.00	0.00	637.09	4549452.55	0.00	21.42	
5	Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per drings (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification Complete as per the direction of Engineer in charge with all lead and lift	ton	40.46	73050.00	2955702.35	40.46	73050.00	2955756.24	0.00	73050.00	0.00	40.46	2955756.24	53.89	0.00	
6	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (queen, Jamb, closer blocks) with solid concrete blocks of size 40x15x20mm conforming to I.S 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications -do- with solid concrete blocks of size 400*200*200 mm Complete as per the direction of Engineer in charge with all lead and lift	Sqm	10331.60	976.00	10083641.60	10331.60	976.00	10083642.77	0.00	976.00	0.00	10331.60	10083642.77	1.17	0.00	
7	Providing raled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm neatly lining, including cost of materials, labour, HOM curing complete as per specifications. - do - cement mortar 1:3 Complete as per the direction of Engineer in charge with all lead and lift	Sqm	31676.80	152.00	4814873.60	31676.80	152.00	4814874.33	0.00	152.00	0.00	31676.80	4814874.33	0.73	0.00	
8	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in For Coping , including cost of all materials, labour, HOM curing complete as per specifications. SComplete as per the direction of Engineer in charge with all lead and lift	Cum	1187.88	5656.00	6718649.28	1187.88	5656.00	6718672.58	0.00	5656.00	0.00	1187.88	6718672.58	23.30	0.00	
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc. complete - do - 10 cms thick Complete as per the direction of Engineer in charge with all lead and lift	Sqm	7085.92	976.00	6915857.92	7085.92	976.00	6915858.12	0.00	976.00	0.00	7085.92	6915858.12	0.20	0.00	
10	Providing one base dressing to granite stone slab / granite stone masonry as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	7085.92	960.00	6802483.20	7085.92	960.00	6802485.79	0.00	960.00	0.00	7085.92	6802485.79	2.59	0.00	
11	Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications (only chamfered length shall be recorded) Complete as per the direction of Engineer in charge with all lead and lift	Sqm	33068.00	62.00	2050216.00	33068.00	62.00	2050216.00	0.00	62.00	0.00	33068.00	2050216.00	0.00	0.00	
12	Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite Jelly of 20 mm and down size with steel Reinforcement, including form work lift charges, curing and concrete finished surface on both sides etc , as per drawing and the direction of Engineer-in-charge Data Rate	Sqm	219.20	5476.00	1200339.20	219.20	5476.00	1200339.20	0.00	5476.00	0.00	219.20	1200339.20	0.00	0.00	
13	Removing and resetting of kerb stones Complete as per the direction of Engineer in charge with all lead and lift	Sqm	14047.80	106.00	1489066.80	14047.80	106.00	1489066.54	0.00	106.00	0.00	14047.80	1489066.54	0.00	0.26	
14	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc , Complete as per the direction of Engineer in charge with all lead and lift	no's	20700.00	460.00	9522000.00	20700.00	460.00	9522000.00	0.00	460.00	0.00	20700.00	9522000.00	0.00	0.00	
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	9345.20	86.00	803687.20	0.00	86.00	0.00	0.00	86.00	0.00	0.00	0.00	0.00	803687.20	
16	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Cum	2316.14	85.00	196871.53	2316.13	85.00	196871.39	0.00	85.00	0.00	2316.13	196871.39	0.00	0.14	
17	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Cum	2215.80	2000.00	4431601.80	2215.04	2000.00	4430084.00	0.00	2000.00	0.00	2215.04	4430084.00	0.00	1517.80	
18	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of upper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Cum	3397.56	2000.00	6795122.76	3397.56	2000.00	6795128.80	0.00	2000.00	0.00	3397.56	6795128.80	6.04	0.00	
19	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM, including cleaning of road surface and spraying primer at the rate of 9.60 kg / sqm using mechanical [illegible] complete as per Specifications, GOM DG Specifications No. 502 C complete with all lead and lift and as per the direction of the Engineer-in-Charge	Sqm	14772.01	30.00	443160.18	14772.01	30.00	443160.30	0.00	30.00	0.00	14772.01	443160.30	0.12	0.00	

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			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
20	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	56523.24	5.00	282616.22	56510.87	5.00	282554.35	0.00	5.00	0.00	56510.87	282554.35	0.00	61.87	
21	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces @ 2.5 kg per 10 sqm. heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	127818.49	13.00	1661640.42	127818.54	13.00	1661641.02	0.00	13.00	0.00	127818.54	1661641.02	0.60	0.00	
22	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications Clause 505 of morth V revision using 40/60 TPH capacity H M P with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Complete as per the direction of Engineer in charge with all lead and lift	Cum	3564.76	7010.00	24988985.13	3564.77	7010.00	24989006.16	0.00	7010.00	0.00	3564.77	24989006.16	21.03	0.00	
23	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revison. - using 60/60 TPH capacity H M P with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen Complete as per the direction of Engineer in charge with all lead and lift	Cum	2851.81	8010.00	22842998.10	2851.81	8010.00	22842985.28	0.00	8010.00	0.00	2851.81	22842985.28	0.00	12.82	
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 The finished surface to be level, uniform and free from streaks and holes complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Sqm	5321.63	463.00	2463912.38	2721.89	463.00	1260235.07	0.00	463.00	0.00	2721.89	1260235.07	0.00	1203677.31	
25	Road markers / Road stud Providing and fixing of road stud 100x 100 mm, diocast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4 1973 complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	no's	9460.00	361.00	3415060.00	0.00	361.00	0.00	0.00	361.00	0.00	0.00	0.00	0.00	3415060.00	
					131204500.33			125780481.34			0.00		125780481.34	109.67	5424128.66	
	Amount as per Schedule "B"				131204500.33		Amount as per Execution			125780481.34						
							ERL Amount			5419686.30						
							Total Execution Cost			131200167.64						
	Total Rs				131204500.33		Total Execution Cost			131200167.64						
	Savings				5424128.66											
	Excess				109.67											

Here by work slip amount Rs: 109/-
(Rs one hundred nine only) is approved

workslip is upmp

Assistant Engineer
Ward No 17
BBMP, Bangalore

Asst Executive Engineer
Yashwanthpura Sub Division

Executive Engineer
RR Nagara Division
BBMP, Bangalore

Contractor / Representative

Consultant / Representative

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